AMENDMENTS TO CLAIMS

 (Currently Amended) An apparatus for replicating a secondary volume of a mirrored volume pair, the apparatus comprising:

> a mirror module configured to suspend mirroring operations between a primary volume and a secondary volume, each volume comprising a suspend-time volume identifier within a volume identifier field:

a volume identification module configured to <u>copy the suspend-time</u> <u>secondary volume identifier for the secondary volume to a hidden field on the</u> <u>secondary volume and</u> associate the secondary volume with a selected volume identifier:

a data replication module configured to copy a volume to a backup volume; and

the volume identification module further configured to associate the suspend-time secondary volume identifier with a backup volume.

(Cancelled).

- (Currently Amended) The apparatus of claim <u>12</u>, wherein the volume identification module is configured to copy the hidden field to the backup volume identifier field.
- (Currently Amended) The apparatus of claim 12, wherein the data replication
 module is further configured to bring the secondary volume online.
- (Original) The apparatus of claim 1, wherein the mirror module is further configured to reestablish mirroring operations between the primary volume and the secondary volume.

- (Original) The apparatus of claim 1, wherein the mirror module is further configured to resynchronize the secondary volume with the primary volume.
- (Original) The apparatus of claim 1, wherein the selected volume identifier is a
 unique volume identifier.
- (Currently Amended) A system for replicating a secondary volume of a mirrored volume pair, the system comprising:
 - a host configured to read and write data;
 - a primary storage system in communication with the host, the primary storage system having a primary volume;
 - a secondary storage system configured to mirror data on the primary storage system using a secondary volume, the secondary volume having a suspend-time volume identifier within a volume identifier field:
 - a backup system configured to replicate an online volume to a backup volume;
 - a secondary volume replication module configured to suspend a mirroring operation, save the suspend-time secondary volume identifier for the secondary volume to a hidden field on the secondary volume, associate the secondary volume with a selected identifier, copy the secondary volume to the backup volume, and associate the suspend-time secondary volume identifier with the backup volume.
 - 9. (Cancelled).

- (Currently Amended) The system of claim 89, wherein the secondary volume replication module is further configured to copy the hidden field to the backup volume identifier field
- (Original) The system of claim 8, wherein the secondary volume replication module is further configured to bring the secondary volume online.
- (Original) The system of claim 8, wherein the secondary volume replication
 module is further configured to reestablish mirroring operations between the primary volume and
 the secondary volume.
- (Original) The system of claim 8, wherein the secondary volume replication module is further configured to resynchronize the secondary volume with the primary volume.
- 14. (Currently Amended) A computer readable storage medium comprising computer readable code configured to carry out a method for replicating a secondary volume of a mirrored volume pair, the method comprising:

suspending mirroring operations between a primary volume and a secondary volume, each volume comprising a suspend-time volume identifier within a volume identifier field:

copying the suspend-time secondary volume identifier for the secondary volume to a hidden field on the secondary volume;

associating the secondary volume with a selected volume identifier; replicating the secondary volume to a backup volume; and

associating the suspend-time secondary volume identifier with the backup volume.

(Cancelled).

- 16. (Currently Amended) The computer readable storage medium of claim 1415, wherein associating the suspend-time secondary volume identifier with the backup volume comprises copying the hidden field contents to a backup volume identifier field.
- (Previously Presented) The computer readable storage medium of claim 14, further comprising bringing the secondary volume online.
- (Original) The computer readable storage medium of claim 14, further comprising reestablishing mirroring operations between the primary volume and the secondary volume.
- (Original) The computer readable storage medium of claim 18, wherein reestablishing mirroring operations further comprises resynchronizing the secondary volume with the primary volume.
- 20. (Original) The computer readable storage medium of claim 18, wherein the operations of suspending mirroring operations, associating the secondary volume with a selected identifier, bringing the secondary volume online, replicating the secondary volume to a backup volume, associating the suspend-time secondary volume identifier with the backup volume, and reestablishing mirroring operations between the primary volume and the secondary volume are performed as an automated sequence responsive to a single input stimuli.

- (Original) The computer readable storage medium of claim 14, wherein associating
 the secondary volume with a selected volume identifier comprises overwriting the secondary
 volume identifier field with the selected volume identifier.
- (Currently Amended) A method for replicating a secondary volume of a mirrored volume pair, the method comprising:

suspending mirroring operations between a primary volume and a secondary volume, each volume comprising a suspend-time volume identifier within a volume identifier field:

copying the suspend-time secondary volume identifier for the secondary volume to a hidden field on the secondary volume;

associating the secondary volume with a selected volume identifier; replicating the secondary volume to a backup volume; and associating the suspend-time secondary volume identifier with the backup volume.

23. (Cancelled).

- (Currently Amended) The method of claim <u>22</u>23, wherein associating the suspend-time secondary volume identifier with the backup volume comprises copying the hidden field contents to the backup volume identifier field.
- (Original) The method of claim 22, further comprising bringing the secondary volume online.

- (Original) The method of claim 22, further comprising reestablishing mirroring operations between the primary volume and the secondary volume.
- (Original) The method of claim 26, wherein reestablishing mirroring operations further comprises resynchronizing the secondary volume with the primary volume.
- 28. (Original) The method of claim 26, wherein the operations of suspending mirroring operations, associating the secondary volume with a selected identifier, bringing the secondary volume online, replicating the secondary volume to a backup volume, associating the suspend-time secondary volume identifier to the backup volume, and reestablishing mirroring operations between the primary volume and the secondary volume are performed as an automated sequence responsive to a single input stimuli.
- (Original) The method of claim 22, wherein the selected volume identifier is a unique volume identifier.
- 30. (Currently Amended) An apparatus for replicating a secondary volume of a mirrored volume pair, the apparatus comprising:

means for suspending mirroring operations between a primary volume and a secondary volume, each volume comprising a suspend-time volume identifier within a volume identifier field:

means for copying the suspend-time secondary volume identifier for the secondary volume to a hidden field on the secondary volume;

means for associating the secondary volume with a selected volume identifier:

means for replicating the secondary volume to a backup volume; and means for associating the suspend-time secondary volume identifier with the backup volume.